

2005 NAIP Survey
Executive Summary
For
Texas

USDA
Farm Service Agency

Aerial Photography Field Office

March 2006

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Section 1

1.0 Introduction

The primary purpose of NAIP is to acquire peak growing season “leaf on” imagery, and deliver this imagery to United States Department of Agriculture (USDA) County Service Centers in order to maintain Common Land Unit (CLU) boundaries and assist with crop compliance and a multitude of other farm programs.

As evidenced by the types of customers requesting NAIP imagery, the imagery has other purposes as well. Although our primary customers are States and County Service Centers, other uses for NAIP imagery, including military, real estate, recreation, planning, etc., cannot be overlooked.

NAIP is a program with a relatively short history, beginning with pilot projects in 2001 and 2002, and moving to full volume acquisition in 2003 to 2005, based on funding and partnering. NAIP is moving out of the research and development phase and into sustainment status. By moving into a sustainment phase, a program can build and evaluate a quality business process, and stabilize. Part of this process is evaluating how NAIP is working for its primary customers.

1.1 Purpose and Scope

The focus of this document is to assess in a qualitative manner how NAIP is satisfying customer needs in Texas. In other words, “How did APFO do in providing *useful* NAIP imagery for its primary customer?” Answering this question comprises the purpose and scope.

1.2 Survey Submittals

For the initial disposition, the following States were sent surveys to disseminate to County Service Centers for completion: WA, OR, OK, KS, NE, MO, IA, MN, WI, IL, IN, OH, CT, and NC. No responses were received from KS or AZ by the 15 Dec 2005 due date. WA noted that they would respond to the survey, but due to imagery delivery/redelivery dates, responses would likely be after 15 Dec.

A second waive of surveys was sent to the following States to disseminate to County Service Centers for completion: CA, CO, MT, ND, SD, TX, LA, MS, AL, GA, FL, SC, VA, MD, PA, MI, RI, and CT. Responses were requested by 17 Feb, and by 9 Mar for select states which received imagery “late”. Surveys were accidentally sent to CT twice, however, County Service Centers only responded once. LA noted that they would only be able to get a few Counties to complete the survey by the 9 Mar due date. MI noted they would not be able to participate in the survey because of CIR rework that would be completed after the survey due date. MT noted that due to the late distribution of imagery, surveys would likely be returned after the 9 Mar due date. During the second waive of surveys, no survey responses were received by CO, GA, MI, or AL. Surveys received after 9 Mar 06 were not scored.

Section 2

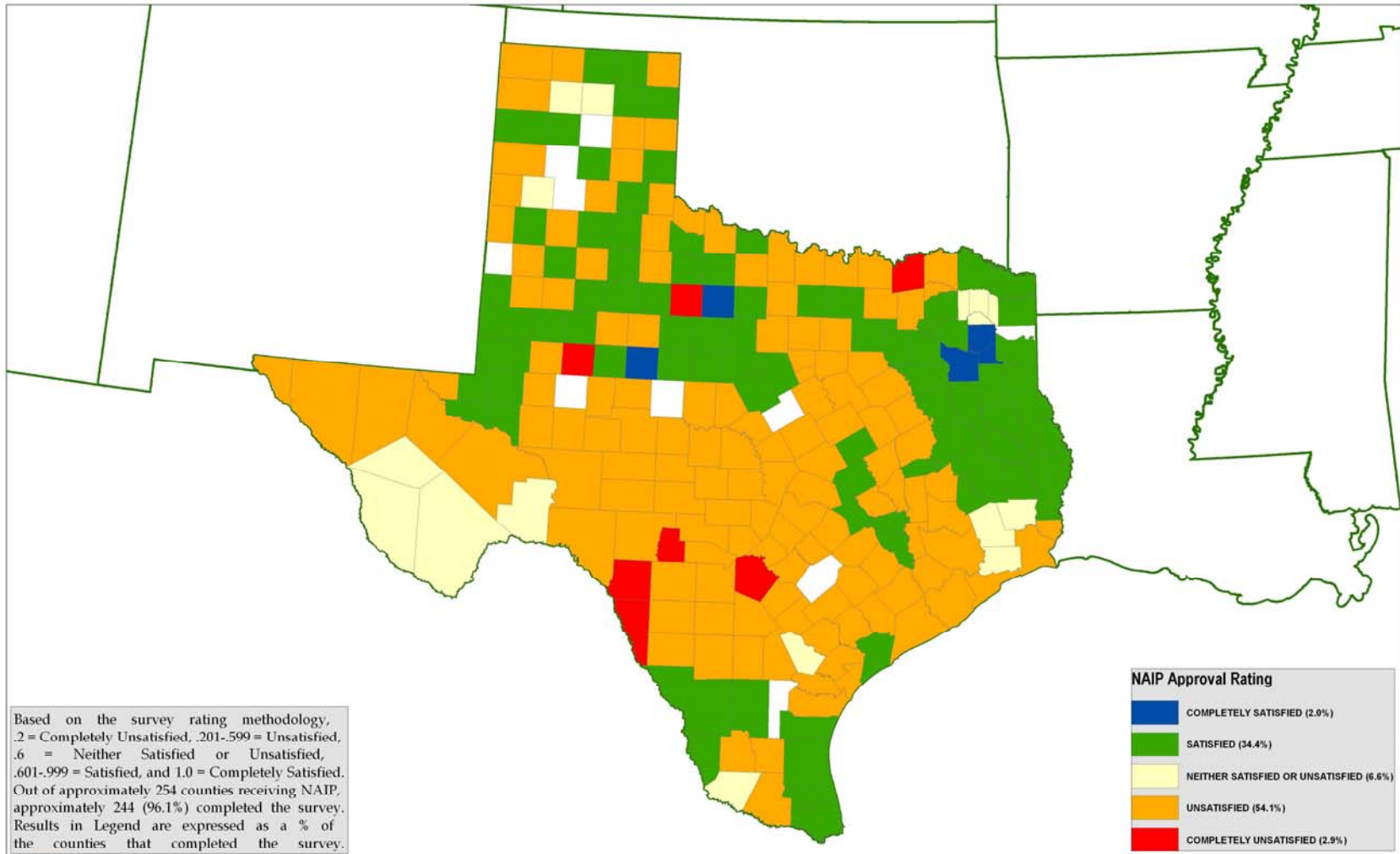
2.0 Qualitative Evaluation Summary

NAIP Assessment Surveys were provided by email to County Service Centers via the State Office and responses were requested by 17 Feb 06. Out of the responses received, in Texas, 7318 of a possible 12920 points were achieved, for a weighted average score out of 1.0 of .566, for a rating of 56.6%. Translated into survey terms, this is an overall rating of “Unsatisfied”. The map on the following page graphically represents overall survey results by county. These results indicate that generally the counties that participated in the survey were not satisfied with 2005 NAIP and that the products did not meet customer needs a good portion of the time.

Most textual comments from the survey revolved around color quality/resolution, and timing of imagery acquisition and delivery. Textual comments can be found in the Executive Summary Supplementals 1 and 2. A statistical summary by question of survey results is shown below. Note that Q1-8 are out of a possible 5 points and Q9-10 are out of a possible 10 points. Statistically, questions averaging an “Unsatisfied” score were Q1, Q2, Q6, Q9, and Q10, “Was the imagery received by your office in time to be useful for crop compliance work?”, “Were the dates the imagery was flown useful for crop compliance work?”, “Is the imagery useful for measurement services?”, “Overall, how satisfied are you with 2005 NAIP acquisition and delivery in your County/State?”, and “Overall, was 2005 NAIP acquisition and deliver in your County/State timely enough to be useful in support of your programs?” respectively. Statistically, the highest scoring question was Q4, “Is the imagery useful for CLU maintenance?”

Q1		Q2		Q3		Q4		Q5	
Mean	2.38961039	Mean	2.56	Mean	3.221698113	Mean	3.376146789	Mean	3.292929293
Standard Error	0.080574713	Standard Error	0.084449666	Standard Error	0.091996178	Standard Error	0.091626781	Standard Error	0.082736689
Median	2	Median	2	Median	3	Median	4	Median	3
Mode	1	Mode	1	Mode	3	Mode	5	Mode	3
Standard Deviation	1.224629607	Standard Deviation	1.266744985	Standard Deviation	1.339484566	Standard Deviation	1.352853212	Standard Deviation	1.164208411
Sample Variance	1.499717674	Sample Variance	1.604642857	Sample Variance	1.794218904	Sample Variance	1.830211812	Sample Variance	1.355381223
Kurtosis	-0.546984064	Kurtosis	-1.123146415	Kurtosis	-1.050845163	Kurtosis	-1.03919478	Kurtosis	-0.732257087
Skewness	0.595012049	Skewness	0.236281686	Skewness	-0.257011508	Skewness	-0.371491217	Skewness	-0.219755228
Range	4	Range	4	Range	4	Range	4	Range	4
Minimum	1	Minimum	1	Minimum	1	Minimum	1	Minimum	1
Maximum	5	Maximum	5	Maximum	5	Maximum	5	Maximum	5
Sum	552	Sum	576	Sum	683	Sum	736	Sum	652
Count	231	Count	225	Count	212	Count	218	Count	198
Q6		Q7		Q8		Q9_X2		Q10_X2	
Mean	2.940366972	Mean	3.064285714	Mean	3.227979275	Mean	5.381355932	Mean	4.877637131
Standard Error	0.097773027	Standard Error	0.096820319	Standard Error	0.088459901	Standard Error	0.146707953	Standard Error	0.15509716
Median	3	Median	3	Median	3	Median	6	Median	4
Mode	1	Mode	3	Mode	4	Mode	6	Mode	4
Standard Deviation	1.44360144	Standard Deviation	1.145593461	Standard Deviation	1.228924225	Standard Deviation	2.253770331	Standard Deviation	2.387690428
Sample Variance	2.083985118	Sample Variance	1.312384378	Sample Variance	1.51025475	Sample Variance	5.079480707	Sample Variance	5.70106558
Kurtosis	-1.363482477	Kurtosis	-0.61550884	Kurtosis	-0.877244283	Kurtosis	-0.593031029	Kurtosis	-0.546133287
Skewness	0.021564468	Skewness	-0.214657603	Skewness	-0.273942006	Skewness	0.290635142	Skewness	0.560472011
Range	4	Range	4	Range	4	Range	8	Range	8
Minimum	1	Minimum	1	Minimum	1	Minimum	2	Minimum	2
Maximum	5	Maximum	5	Maximum	5	Maximum	10	Maximum	10
Sum	641	Sum	429	Sum	623	Sum	1270	Sum	1156
Count	218	Count	140	Count	193	Count	236	Count	237

2005 NAIP - Overall Qualitative Survey Results



0 100 200 Kilometers
Map Date: 14 March 06

